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PTO/SB/05 (4/98)
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UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 C.F.R. § 1.53(b))

Attorney Docket No.	N/A
First Inventor or Application Identifier	PAGE, JUSTIN
Title	NETWORK AND DATABASE SYSTEM . . .
Express Mail Label No.	

jc808 U.S. PTO 04/24/00

jc530 U.S. PTO 09/557252 04/24/00

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

ADDRESS TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231

1. [X] * Fee Transmittal Form *(e.g., PTO/SB/17)*
   (Submit an original and a duplicate for fee processing)
2. [X] Specification [Total Pages 10]
   (preferred arrangement set forth below)
   - Descriptive title of the Invention
   - Cross References to Related Applications
   - Statement Regarding Fed sponsored R & D
   - Reference to Microfiche Appendix
   - Background of the Invention
   - Brief Summary of the Invention
   - Brief Description of the Drawings *(if filed)*
   - Detailed Description
   - Claim(s)
   - Abstract of the Disclosure
3. [X] Drawing(s) *(35 U.S.C. 113)* [Total Sheets 1]
4. Oath or Declaration [Total Pages 1]
   a. [X] Newly executed (original or copy)
   b. [ ] Copy from a prior application (37 C.F.R. § 1.63(d)) *(for continuation/divisional with Box 16 completed)*
      i. [ ] DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. §§ 1.63(d)(2) and 1.33(b).

NOTE FOR ITEMS 1 & 13: IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY FEES, A SMALL ENTITY STATEMENT IS REQUIRED (37 C.F.R. § 1.27), EXCEPT IF ONE FILED IN A PRIOR APPLICATION IS RELIED UPON (37 C.F.R. § 1.28).

5. [ ] Microfiche Computer Program *(Appendix)*
6. Nucleotide and/or Amino Acid Sequence Submission *(if applicable, all necessary)*
   a. [ ] Computer Readable Copy
   b. [ ] Paper Copy (identical to computer copy)
   c. [ ] Statement verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

7. [ ] Assignment Papers (cover sheet & document(s))
8. [ ] 37 C.F.R.§3.73(b) Statement *(when there is an assignee)* [ ] Power of Attorney
9. [ ] English Translation Document *(if applicable)*
10. [ ] Information Disclosure Statement (IDS)/PTO-1449 [ ] Copies of IDS Citations
11. [ ] Preliminary Amendment
12. [X] Return Receipt Postcard (MPEP 503) *(Should be specifically itemized)*
13. [X] * Small Entity Statement(s) *(PTO/SB/09-12)* [ ] Statement filed in prior application, Status still proper and desired
14. [ ] Certified Copy of Priority Document(s) *(if foreign priority is claimed)*
15. [ ] Other: .....

16. **If a CONTINUING APPLICATION,** *check appropriate box, and supply the requisite information below and in a preliminary amendment:*
    [ ] Continuation [ ] Divisional [ ] Continuation-in-part (CIP) of prior application No: _____/_____
    Prior application information: Examiner _____ *Group / Art Unit:* _____
    For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 4b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

17. CORRESPONDENCE ADDRESS

[ ] *Customer Number or Bar Code Label* *(Insert Customer No. or Attach bar code label here)* or [ ] *Correspondence address below*

Name	JUSTIN PAGE				
Address	1-1404 RIVER COURT				
City	JERSEY CITY	State	NJ	Zip Code	07310
Country	USA	Telephone	201-626-3490	Fax	201-626-3491

Name (Print/Type)	JUSTIN PAGE	Registration No. (Attorney/Agent)	N/A
Signature		Date	

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jc808 U.S. PTO
04/24/00

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

jc530 U.S. PTO
09/557252
04/24/00

Mailed: 2000, April 24

Box Patent Application
Assistant Commissioner for Patents
Washington, District of Columbia 20231

Sir or Madam:

Please file the following enclosed application papers:

Sole Applicant: Justin Page
1-1404 River Court
Jersey City, NJ 07310

Title: NETWORK AND DATABASE SYSTEM FOR PERSONAL PRIVACY PROTECTION

1. Specification, Claims, and AbstractL Nr. Of Sheets: 10
2. Declaration signed April 24, 2000
3. Drawings, 1 Formal Sheet
4. Small Entity Declaration of Inventor
5. Check for $325.00 for filing fee
6. Information Disclosure Statement
7. Return Receipt Addressed to Applicant.
8. **Request under MPEP § 707.07(j)**: The undersigned, a pro se applicant, respectfully requests that if the examiner finds patentable subject matter disclosed in this application, but feels that Applicant's claims are not entirely suitable, the Examiner draft one or more allowable claims for applicant.

Very respectfully,

Justin Page

1-1404 River Court
Jersey City, NJ 07310

Express Mail Label: <EK243862374US> : Date of Deposit 2000, April 24

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STATEMENT CLAIMING SMALL ENTITY STATUS (37 CFR 1.9(f) & 1.27(b))--INDEPENDENT INVENTOR	Docket Number (Optional)

Applicant, Patentee, or Identifier: JUSTIN PAGE

Application or Patent No.: NOT ASSIGNED

Filed or Issued.

Title. NETWORK AND DATABASE SYSTEM FOR PERSONAL PRIVACY PROTECTION

As a below named inventor, I hereby state that I qualify as an independent inventor as defined in 37 CFR 1.9(c) for purposes of paying reduced fees to the Patent and Trademark Office described in:

- [X] the specification filed herewith with title as listed above.
- [ ] the application identified above.
- [ ] the patent identified above.

I have not assigned, granted, conveyed, or licensed, and am under no obligation under contract or law to assign, grant, convey, or license, any rights in the invention to any person who would not qualify as an independent inventor under 37 CFR 1.9(c) if that person had made the invention, or to any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e).

Each person, concern, or organization to which I have assigned, granted, conveyed, or licensed or am under an obligation under contract or law to assign, grant, convey, or license any rights in the invention is listed below:

- [X] No such person, concern, or organization exists.
- [ ] Each such person, concern, or organization is listed below.

Separate statements are required from each named person, concern, or organization having rights to the invention stating their status as small entities. (37 CFR 1.27)

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

JUSTIN PAGE		
NAME OF INVENTOR	NAME OF INVENTOR	NAME OF INVENTOR
Signature of inventor	Signature of inventor	Signature of inventor
4/24/2000		
Date	Date	Date

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Patent Application of

Justin Page

For

TITLE: NETWORK AND DATABASE SYSTEM FOR PERSONAL PRIVACY PROTECTION

09595252 - 042400

CROSS-REFERENCE TO RELATED APPLICATIONS

Patent No.	Inventor
5,274,547	Zoffel et al.
5,323,315	Highbloom
5,696,965	Dedrick
5,742,775	King
5,752,242	Havens
5,809,478	Greco et al.
5,872,921	Zahariev et al.
5,878,403	DeFrancesco et al
5,943,666	Kleewein et al.
5,999,907	Donner
6.023,694	Kouchi et al.
6,029,149	Dykstra et al.

Foreign Patent Number	Country & Date
97/14108	World Organization,04/97
10-257177	Japan, 09/1998

BACKGROUND OF THE INVENTION

FIELD OF INVENTION

The invention (1,4,9) generally relates to the field of protection of personal data and digital information which is publicly available, and more specifically, to the field of culling electronic and/or digital information and data sources (7) which tend to disclose legally or illegally obtained personal information (while building a database thereof, and monitoring those for changes, additions and deletions, and new entries(5)) and upon the bona fide violation of privacy and at the user's behest, all legal automated means are taken to have the data removed on the individual's behalf. Failing success of the efforts described hereinbefore, the system has a document generation and professional referral component (4), which will expedite the processing of non-automated actions or proceedings.

DESCRIPTION OF PRIOR ART

The transition from an industrial to a computer-based society is rapidly taking place. In this process, the threat to individual privacy has become undeniable, and is well documented. Despite the increasing frequency of "identity theft," and of credit fraud and error, there is no practical and simple way for individuals to protect themselves – either proactively or, where an individual has already been victimized, reactively.

Automated electronic business methods have been the subject of earlier patents. Highbloom discloses a system for periodic monitoring of collateralized property, to determine if individual items of property are being utilized to collateralize multiple loans with different lenders. The system reports to lenders when that occurs. The patent to Donner involves an audit system that searches intellectual property databases, makes comparisons and outputs a report.

The patent to Zoffel et al. involves a system for generating and transmitting credit reports. The patent to Dykstra et al. involves a system which outputs credit reports via facsimile. Kouchi describes a generic system for periodic data retrieval from heterogeneous databases (its heterogeneity pertaining to technical infrastructure and design, but not content or ownership) with subsequent report generation. The rest of the above-listed patents were selected to further illustrate patents in the field of automated electronic methods of credit bureaus and other sources.

SUMMARY

Is is, therefore, the object of the present invention (1,4,9) to protect individual privacy by means of an electronic method which tracks, subscribes, persistently culls databases (which are stored in a database itself) and in the event of any new information found, notifies users electronically of any such information (or not, if they so choose), and alternatively allows them to respond to such information electronically. Failing success of said electronic methods, or where no electronic methods exist, the system generates prepared documents for investigative, administrative and/or legal follow-up (4).

BRIEF DESCRIPTION OF THE DRAWING

Figure 1 is a detailed block diagram of the structure of the network and database system for personal privacy protection.

COMPONENT DESCRIPTIONS

1. A computer program and business method, programmed in Java™ (or any open systems language) which constantly culls various privacy-related databases on behalf of its users, and dispatches new information to the user, will aid the user in the disputation of false information, will reactively alert the user's financial institutions after a theft or security breach, attempt to lessen the user's liability and/or burden by expedited automated methods (where available), and failing electronic resolution, the invention generate the appropriate documents and assign to attorney, private detective or credit specialist for further investigation. The system is dependent upon

2. A secured Internet connection, including routers and hardware and software "firewalls" to prevent unauthorized access.

3. Omitted

4. Legal and Administrative Document Generation System

5. Database of Customer Information and Accounts

6. Omitted

7. A compilation of dynamic information providers and/or privacy offenders,

8. The Internet or a Private or Semi-Private Network

9. Manual and automated e-mail process to continue removal of personal information.

OBJECTS OF THE INVENTION

1. to provide an inclusive means for the protection and restoration of individual consumer privacy;

2. to inform individuals automatically when potential or actual risk or theft exists, and offer to provide further services, if the user so desire and/or requires.

3. to build and maintain a persistently updated database of publicly accessible databases and information, including but not limited to Internet web pages, Internet "newsgroups", the Internet 'WHOIS' database (a database of all Internet domain name registrations), publicly and semi-publicly available information (including government databases), credit bureau databases and law enforcement systems;

4. to create electronic referrals to attorneys, private detectives, security specialists and law enforcement agencies when required;

5. to generate documents relative to the aforesaid referrals in order to expedite the processing of any such action or complaint in the event of an adverse event;

6. to provide constant electronic notice to users of said system and processes of any new information circulating within the aforesaid databases;

7. to reduce the burden on those who have been victimized by identity theft, credit card fraud, Internet domain name theft or other privacy-related offenses;

8. to expedite recuperative or restorative procedures by electronic means or by automatically generating documents based upon the data collected in from the user.

PREFERED EMBODIMENT OF THE INVENTION

The current invention uses distributed and open-system architecture to create easy extensibility. Sources of data are as varied as the methods that could be employed to access them. It is implemented as a platform-portable, language-independent distributed object framework. For example, the present invention could easily act as a back-end resource to existing online providers. The distributed approach allows the system to be accessible through a number of interfaces, for example web browsers, web devices, traditional and interactive television, personal data assistants or on diverse operating systems, such as Sun Solaris™ or Microsoft Windows NT™.

Referring to Figure 1, a diagrammatic representation of access to the Invention's network is shown. Preferably, users access the invention via the Internet, its successors or replacements. The invention shall be accessible to any site with TCP/IP name resolution (although full usage may require further usage of industry digital encryption standards.) The invention is designed with the expansibility of the Internet's infrastructure in mind.

As shown in figure 1, electronic transmissions destined for the invention are routed (1) to a web server (with associated database and "middleware") subsystems) for processing (5). Security is obviously a significant issue for privacy protection systems. Therefore, at the demarcation zone (2) a state-of-the-art hardware and software sub-system to provide unauthorized access, denial of service attacks or other service interruptions.

Data requests could be serviced in a number of ways. For example, data may be accessed using an Oracle Database running on Sun Solaris or on a Microsoft Windows NT Server running on Windows NT.

Although the present invention can be based upon the Internet Protocol (IP), clients are completely isolated from back-end sourcing concerns and do not need to know the IP addresses of object servers. Using this approach, servers may be added simply by connection to the Internet. Consequently, clients are not affected by database, network, operating system, installing system and server software or architectural change. The distributed nature of the system means that it is composed of relatively simple applications that implement a single interface or a small group of interfaces.

The Object Request Broker (ORB) is an "information bus" that connects users to the objects they need to be automatically notified of new information about them, and what (if any) action should be taken.

The present invention uses the latest possible Internet Protocol security devices and digital signatures. This is to ensure system security and the security of the user data.

09525252 - 042202

ABSTRACT

The invention relates generally to the field of protection of personal data and digital information which is publicly available on the Internet or via other means, and more specifically, to the field of persistent culling of electronic and/or digital information and data sources which tend to disclose legally or illegally obtained personal information (while building a database thereof, and monitoring those for changes, additions and deletions, and new entries) and upon a confirmed alleged violation of privacy at the user's behest, all legal automated means are taken to have the data removed on the individual's behalf. Failing success of the efforts described hereinbefore, the system has a document generation and professional referral component (4), which will expedite the processing of non-automated actions or proceedings.

CLAIMS

What is claimed is;

1. A computer related method comprising (1, 4, 9) an inclusive means for the protection and restoration of individual consumer privacy by;

2. As regards personal privacy, an "Agent" (also known as a "spider", "Robot" or "Bot"), that is, a computer program that persistently, "does your bidding for you." By searching multiple databases where privacy is commonly overlooked. (n.b. No claim is made to the "Agent" model per se, but rather its use to protect personal privacy and defend personal privacy)

3. A method and process for culling electronic and/or digital information and data sources (7) which tend to disclose legally or illegally obtained personal information as to users of the invention;

4. Persistently builds a database (2) of the data sources described in claim 2, and monitoring those for changes, additions and deletions, and new entries;

5. to regularly inform individuals automatically when potential or actual risk or theft exists, and provide further services, if the user so desire and/or requires.

6. to create a business process for electronic referrals (4) to attorneys, private detectives, credit bureaus, banks, creditors and/or debtors of the user, security specialists and law enforcement agencies when required;

7. to inform the user, when possible, of the requester of any personal information;

8. to act, upon such referrals as in Claim 4, to automatically generate necessary documents such as may be required for administrative, legal or other proceedings, thereby reducing the time to file such actions;

9. to offer each and every of the preceding privacy-related claims via the public internet or interchangeably, via private networks.

Document Page

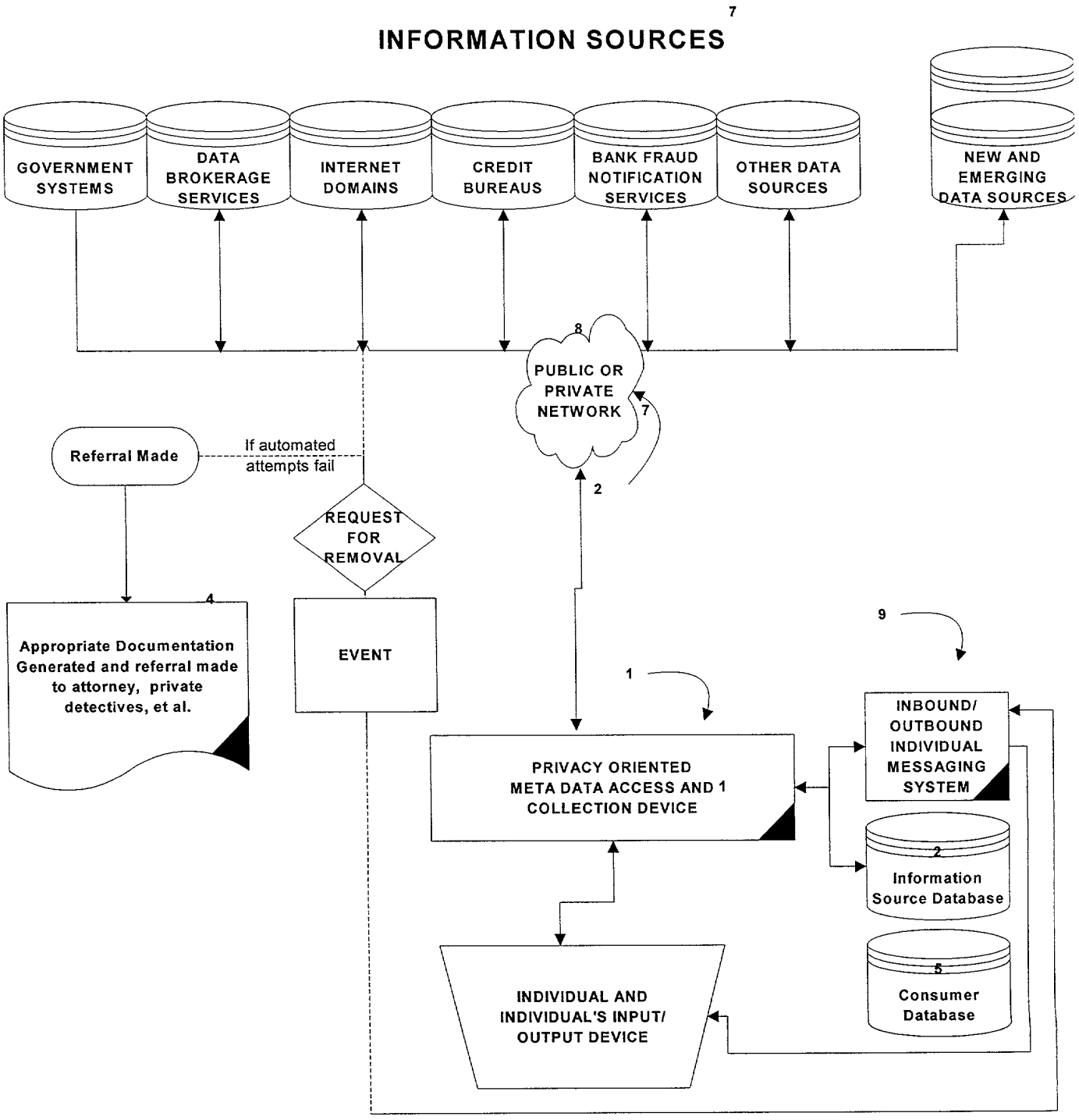
INFORMATION SOURCES
7
GOVERNMENT SYSTEMS
DATA BROKERAGE SERVICES
INTERNET DOMAINS
CREDIT BUREAUS
BANK FRAUD NOTIFICATION SERVICES
OTHER DATA SOURCES
NEW AND EMERGING DATA SOURCES
8
PUBLIC OR PRIVATE NETWORK
7
Referral Made
If automated attempts fail
REQUEST FOR REMOVAL
2
4
Appropriate Documentation Generated and referral made to attorney, private detectives, et al.
EVENT
9
1
PRIVACY ORIENTED META DATA ACCESS AND 1 COLLECTION DEVICE
INBOUND/ OUTBOUND INDIVIDUAL MESSAGING SYSTEM
2
Information Source Database
5
Consumer Database
INDIVIDUAL AND INDIVIDUAL'S INPUT/ OUTPUT DEVICE

FIGURE 1

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DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63)

☒ Declaration Submitted with Initial Filing **OR** ☐ Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)

Attorney Docket Number	
First Named Inventor	PAGE, JUSTIN
COMPLETE IF KNOWN	
Application Number	/
Filing Date	
Group Art Unit	
Examiner Name	

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled.

NETWORK AND DATABASE SYSTEM FOR PERSONAL PRIVACY PROTECTION

(Title of the Invention)

the specification of which
☒ is attached hereto
OR
☐ was filed on (MM/DD/YYYY) _____ as United States Application Number or PCT International Application Number _____ and was amended on (MM/DD/YYYY) _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1 56.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached? YES	NO
			☐	☐	☐
			☐	☐	☐
			☐	☐	☐
			☐	☐	☐

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

I hereby claim the benefit under 35 U S.C. 119(e) of any United States provisional application(s) listed below.

Application Number(s)	Filing Date (MM/DD/YYYY)

☐ Additional provisional application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

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I hereby claim the benefit under 35 U.S C. 120 of any United States application(s), or 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. Parent Application or PCT Parent Number	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number (if applicable)

☐ Additional U.S. or PCT international application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

As a named inventor, I hereby appoint the following registered practitioner(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: ☐ Customer Number [ ] → *Place Customer Number Bar Code Label here*
OR
☐ Registered practitioner(s) name/registration number listed below

Name	Registration Number	Name	Registration Number
PRO SE	N/A	N/A	N/A

☐ Additional registered practitioner(s) named on supplemental Registered Practitioner Information sheet PTO/SB/02C attached hereto.

Direct all correspondence to: ☐ Customer Number or Bar Code Label [ ] OR ☒ Correspondence address below

Name	JUSTIN PAGE				
Address	1-1404 RIVER COURT				
Address					
City	JERSEY CITY	State	NJ	ZIP	07310
Country	USA	Telephone	201-626-3490	Fax	201-626-3491

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of Sole or First Inventor: ☐ A petition has been filed for this unsigned inventor

Given Name (first and middle [if any])	Family Name or Surname
JUSTIN	PAGE

Inventor's Signature	[signature]					Date	4/24/2000
Residence: City	JERSEY CITY	State	NJ	Country	USA	Citizenship	USA
Post Office Address	1-1404 RIVER COURT						
Post Office Address							
City	JERSEY CITY	State	NJ	ZIP	07310	Country	USA

☐ Additional inventors are being named on the ____supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto